PATENT COOPERATION EATY



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1'035P03-WO			FOR FURTHER ACTION		n of Transmittal of Internatio amination Report (Form PC		
International application No. PCT/TR 03/00082			International filling date (day/inor 26.09.2003	ntin/yesr)	Priority date (day/month/y/) 26.09.2002	401)	
	ational Q1/68		ooth national classification and IFC				
Appilo KÖK		N, Orhan, Kaya et al.					
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
7	These annexes consist of a total of 1 sheets.						
3.	This r	eport contains indications re	elating to the following items:				
	ļ	🖾 Basis of the opinion					
	II						
	III D Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	IV ☐ Lack of unity of invention						
	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					applicability;	
	VI	Certain documents cit	ed				
			International application				
	VIII :	Certain observations o	on the international application				
Date of submission of the demand			Date of	completion of the	s report		
26.04.2004			03.03	.2005			
Name and mailing address of the international preliminary examining authority:			nal Authori	zed Officer	mananana ara-ara-ara-ara-ara-ara-ara-ara-ara-ar	California Contractions	
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Form PCT/PEA/409 (Cover Sheet) (January 2004)

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/TR 03/00082

I. Basis	of the	report
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1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages	•					
	1-7		as originally filed					
	Cla	ims, Numbers	•					
	1-2		received on 02.10.2004 with letter of 27.09.2004					
	Dra	wings, Sheets						
	1/2-	2/2	as originally filed					
2.			rage, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.					
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).					
3.	With	n regard to any nucle rnational preliminary	ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with the international application in computer readable form.						
	\boxtimes	furnished subsequently to this Authority in written form.						
	図	furnished subsequently to this Authority in computer readable form.						
ָ		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the listing has been furn	he information recorded in computer readable form Is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims
No: Claims

Inventive step (IS)

Yes: Claims
1-2
No: Claims

Industrial applicability (IA)

Yes: Claims
1-2
No: Claims

2. Citations and explanations

see separate sheet

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Ro Item V

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Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following document:
 - D1: FRANCESCA BRUNELLO ET AL.: "IDENTIFICATION OF 54 MYCOBACTERIAL SPECIES BY PCR-RESTRICTION FRAGMENT LENGTH POLYMORPHISM ANALYSIS OF THE HSP65 GENE" JOURNAL OF CLINICAL MICROBIOLOGY, vol. 39, no. 8, 2001, pages 2799-2806, XP002286615
- 2. The amendments filed on 02.10.04 do not introduce additional subject-matter, which extends beyond the content of the application as filed. Therefore, the amendments meet the requirements of Article 34(2)(b) PCT.
 - Claims 1 and 2 as filed on 0.2.10.04 correspond to claims 1 and 8 of the original set of claims.
- 3. Novelty (Article 33(2) PCT) and inventive step (Article 33(3) PCT)

The document D1 is regarded as being the closest prior art to the subject-matter of claims 1 and 2, relating to a DNA molecular size marker, and discloses the identification of 54 mycobacterial species by PCR-restriction fragment length polymorphism analysis of the *hsp65* gene, wherein molecular size markers are used for the analysis (see pages 2799-2805 and tables 2 and 3).

The subject-matter of claims 1 and 2 differs from the disclosure in D1 in that the fragments have different sizes.

The subject-matter of claims 1 and 2 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as to provide an improved DNA molecular size marker, suitable for analysis of mycobacteriae.

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-April 1997)



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EXAMINATION REPORT - SEPARATE SHEET

The molecular size markers of the present application contain fragments of exactly the same size as the restriction fragment of mycobacteriae. These markers are specific and allow a rapid and accurate determination of the tested strains.

The restriction analysis of mycobacteriae is usually done by using commercially available molecular size markers not really specific for mycobacteriae, which is also the case in D1. No reference is given for the need of other molecular size markers.

Thus, claims 1 and 2 of the present application are considered to involve an inventive step (Article 33(3) PCT).

Form PCT/Separate Sheet/409 (Sheet 2) (EPO-April 1997)

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